GENERALIZATIONS OF BERNOULLI NUMBERS
AND POLYNOMIALS

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and LOKENATH DEBNATH

The concepts of Bernoulli numbers B_n, Bernoulli polynomials $B_n(x)$, and the generalized Bernoulli numbers $B_n(a,b)$ are generalized to the one $B_n(x;a,b,c)$ which is called the generalized Bernoulli polynomials depending on three positive real parameters. Numerous properties of these polynomials and some relationships between B_n, $B_n(x)$, $B_n(a,b)$, and $B_n(x;a,b,c)$ are established.

2000 Mathematics Subject Classification: 11B68, 33E20.

1. Introduction. It is well known that Bernoulli's numbers and polynomials play important roles in mathematics. They are main objects in the theory of special functions [5]. Their definitions can be given as follows.

DEFINITION 1.1. The numbers B_n, $0 \le n \le \infty$, are called Bernoulli numbers if

$$\phi(t) = \frac{t}{e^t - 1} = \sum_{n=0}^{\infty} \frac{B_n}{n!} t^n, \quad |t| < 2\pi. \tag{1.1}$$

DEFINITION 1.2. The functions $B_n(x)$, $0 \le n \le \infty$, are called Bernoulli polynomials if they satisfy

$$\phi(x;t) = \frac{t e^{xt}}{e^t - 1} = \sum_{n=0}^{\infty} \frac{B_n(x)}{n!} t^n, \quad |t| < 2\pi, \ x \in \mathbb{R}. \tag{1.2}$$

The usual definition of higher-order Bernoulli polynomials is

$$\frac{t^\sigma e^{ut}}{(e^t - 1)^\sigma} = \sum_{n=0}^{\infty} \frac{B_n^\sigma(u)}{n!} t^n, \quad |t| < 2\pi. \tag{1.3}$$

In [2, 4] the second and third authors generalized the concept of Bernoulli numbers as follows.

A Generalization Of The Bernoulli Numbers

Ensheng Dong

A Generalization Of The Bernoulli Numbers:

   A Generalization of the Bernoulli Numbers Hasmiah Bahari,2006   <u>A Classical Introduction to Modern Number Theory</u> Kenneth Ireland,Michael Ira Rosen,1990-09-07 This well developed accessible text details the historical development of the subject throughout It also provides wide ranging coverage of significant results with comparatively elementary proofs some of them new This second edition contains two new chapters that provide a complete proof of the Mordel Weil theorem for elliptic curves over the rational numbers and an overview of recent progress on the arithmetic of elliptic curves

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   <u>Unusual Applications of Number Theory</u> Melvyn Bernard Nathanson,2004 This volume contains the proceedings of the workshop held at the DIMACS Center of Rutgers University Piscataway NJ on Unusual Applications of Number Theory

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